


DATA SHEET

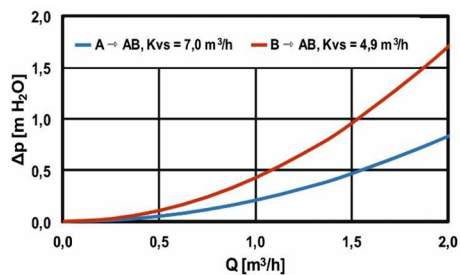
RGMAT E R8 5/4 F Pump Station

	Main Features	
	Description	<p>This Load Unit is intended for systems with solid-fuel boilers and fireplaces. The Load Valve integrated in the Load Unit keeps the min. incoming temperature to a boiler (fireplace) above the flue gas condensation temperatures, which prevents low-temperature corrosion of the boiler combustion chamber. This way the Load Unit contributes to a significant reduction in tarring and boiler fouling, to an increase in the efficiency of fuel combustion and to extension of the boiler service life. The Load Unit consists of:</p> <ul style="list-style-type: none">• RPA 25-8 Pump,• TSV5B Load Valve w. outer threads and automatic bypass balancing,• thermometer,• insulation.
	Working fluid	Water; water/glycol mixture (max. 1:1) or water/glycerine mixture (max. 2:1). pH range 6.5-8.5. We recommend placing a filter with a mesh size of max. 0.6 mm upstream of the pump – e.g. Magnetfilterball – see the Catalogue for codes.
	Installation	On return piping, min. dist. of the pipe axis from a wall is 100 mm.
Codes		boiler output
21258 – for valve opening temperature 55 °C		max. 53 kW
21260 – for valve opening temperature 65 °C		max. 38 kW
Technical Data		
Fluid working temperature		5–95 °C
Max. working pressure		6 bar
Min. working pressure		0.5 bar
Ambient working temperature		5–40 °C
Max. relative humidity		80 % non condensing
Control Range of the Load Valve		opening temperature +5 °C
Load Valve Kvs (direction A ► AB)		7.0 m³/h
Load Valve Kvs (direction B ► AB)		4.9 m³/h
Pump motor protection		integrated
Overall dimensions		325 x 140 x 220 mm
Total weight		3.3 kg
Connections		3 x G 5/4" F
Electric Data		
Insulation		230 V, 50 Hz
Load Valve and fittings		65 W
Thermostatic element and plug seal		0.65 A
Load Valve cone seal		IP44

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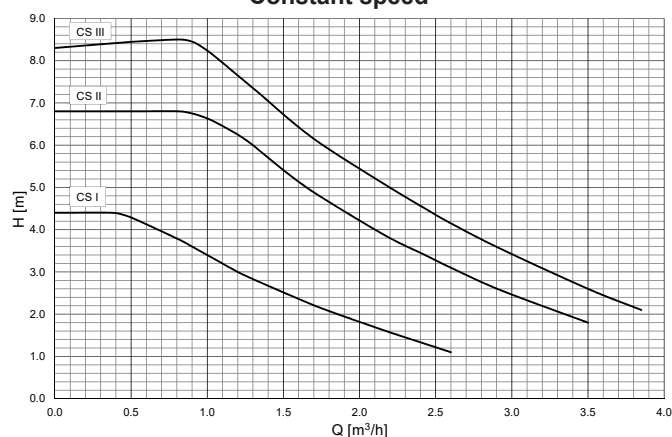
Valve pressure drop diagram



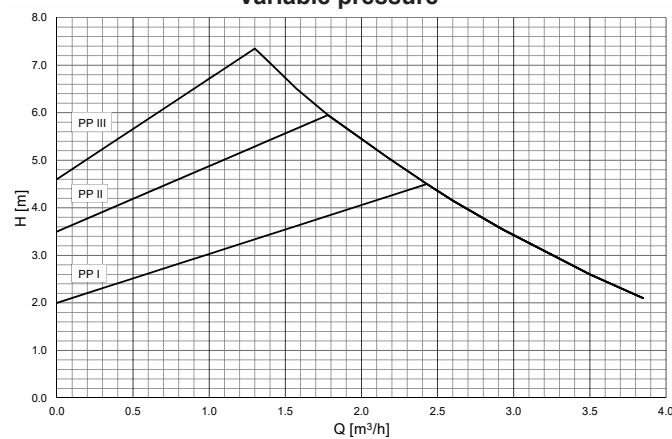
The pressure drop value of the valve moves between the two curves depending on the mixing ratio during mixing.

Pump performance curves

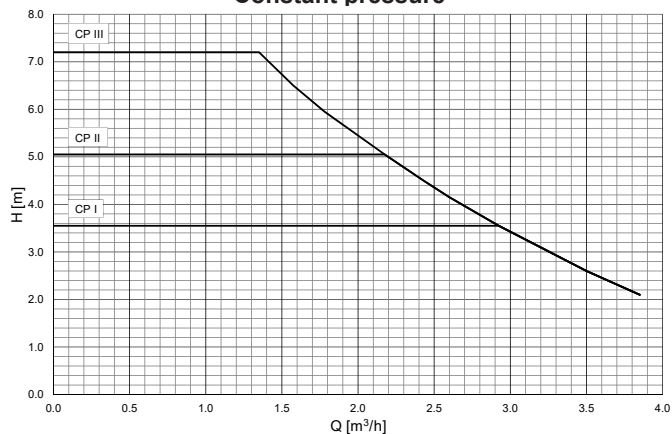
Constant speed



Variable pressure

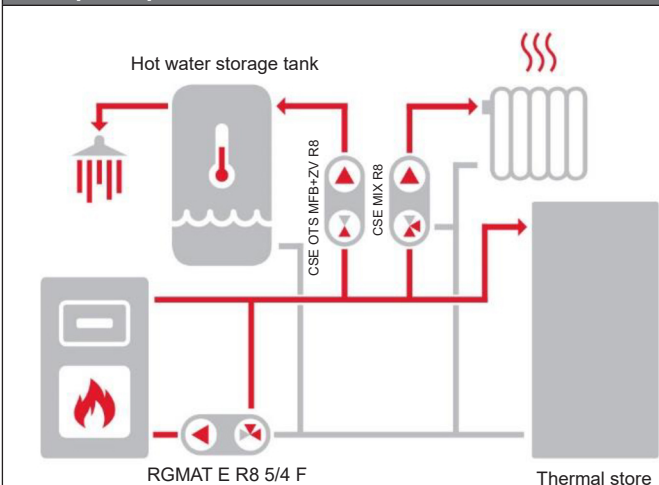


Constant pressure

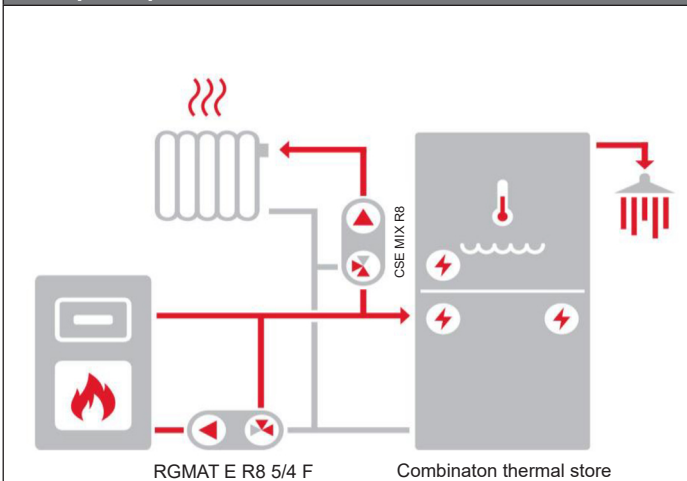


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Example of possible connection I


The diagram shows a typical connection of a solid fuel boiler, thermal store and heating circuit (with the recommended CSE MIX R8 pump station – not included in supply). If the boiler is used also for hot water heating, it is recommended to install a CSE OTS MFB+ZV R8 pump station (not included).

Example of possible connection II


The diagram shows a typical connection of a solid fuel boiler, combination thermal store and heating circuit (with the recommended CSE MIX R8 pump station – not included in supply).